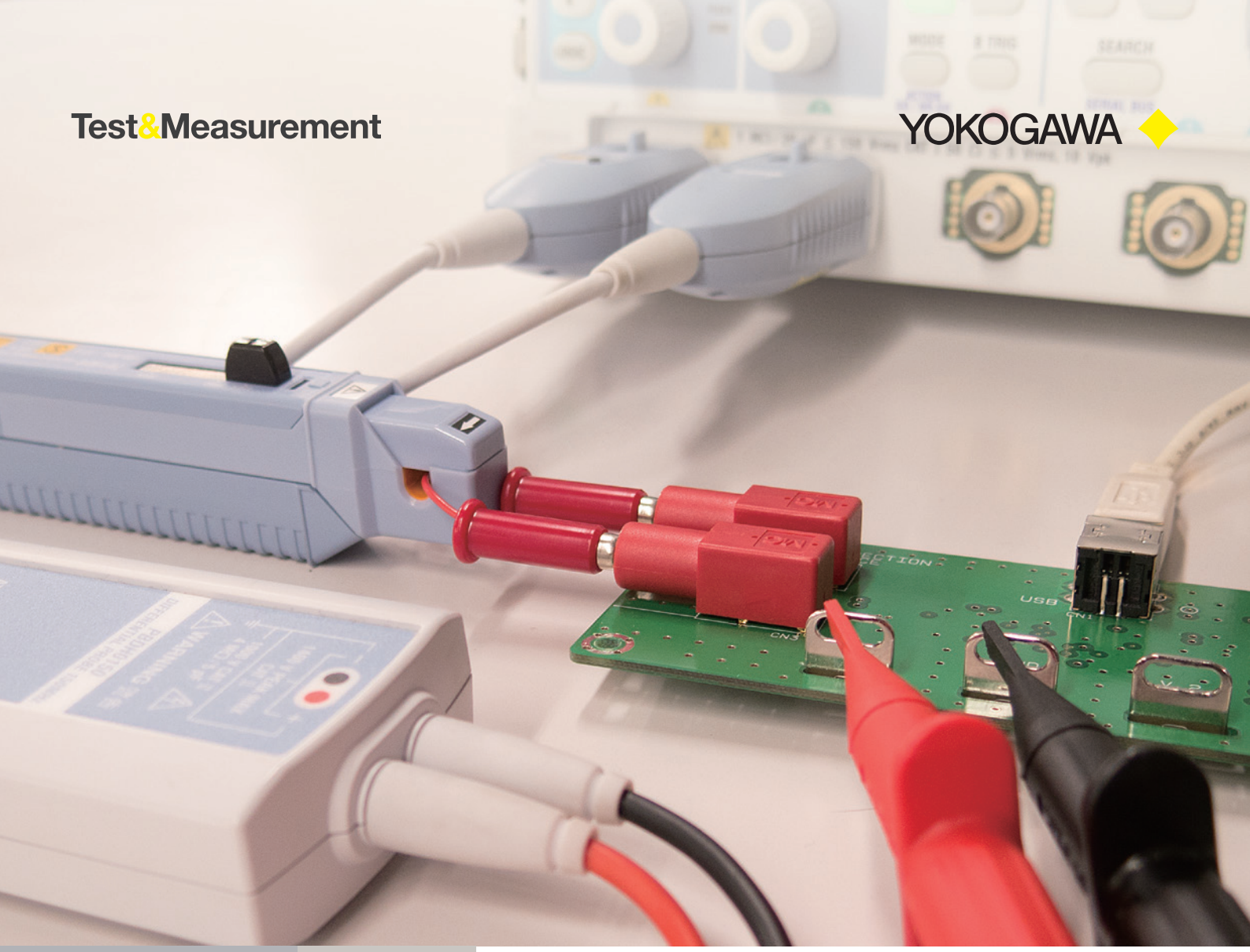
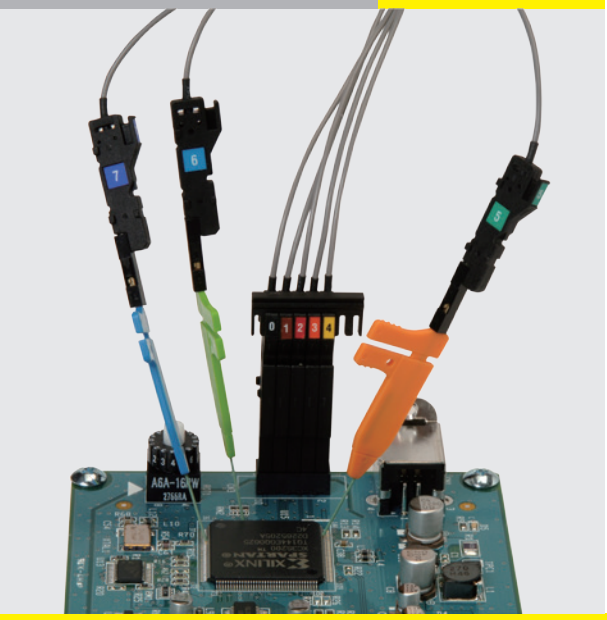
Test&Measurement

YOKOGAWA





Precision waveform measurement essentials

Probes and accessories for Oscilloscopes and ScopeCorders

Bulletin 7001-63E

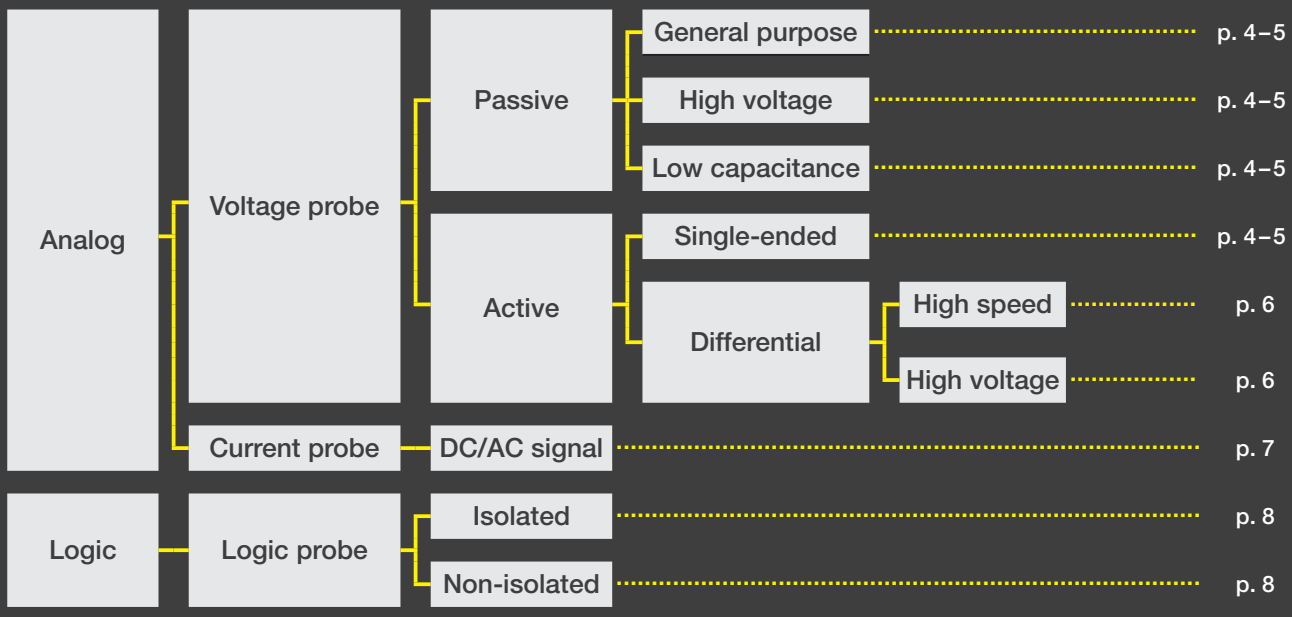
Valid waveform measurement results.

An oscilloscope or ScopeCorder is only half the waveform measurement solution. The probe, its interaction with the measuring instrument and how it is connected to the circuit under test, can dramatically affect the quality and validity of the results.

Yokogawa helps engineers develop important skills by providing a wide range of accessories, which address today's diverse measurement needs, such as probes which can be used in more extreme temperature environments and voltage and current probes for specific uses.

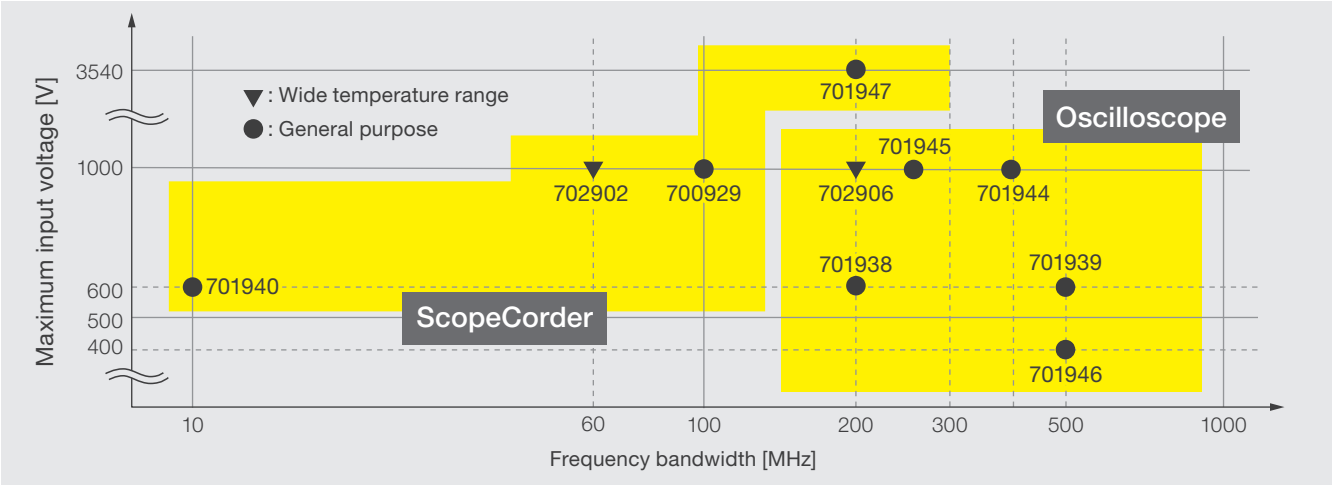
Probes

Yokogawa supports a broad range of measurement applications with probes for general purpose use, active probes for high-speed waveform observation, high-voltage differential types for probing floating power electronics signals, a range to measure currents precisely from 1 mA to 500 A and probes for other specialized uses.

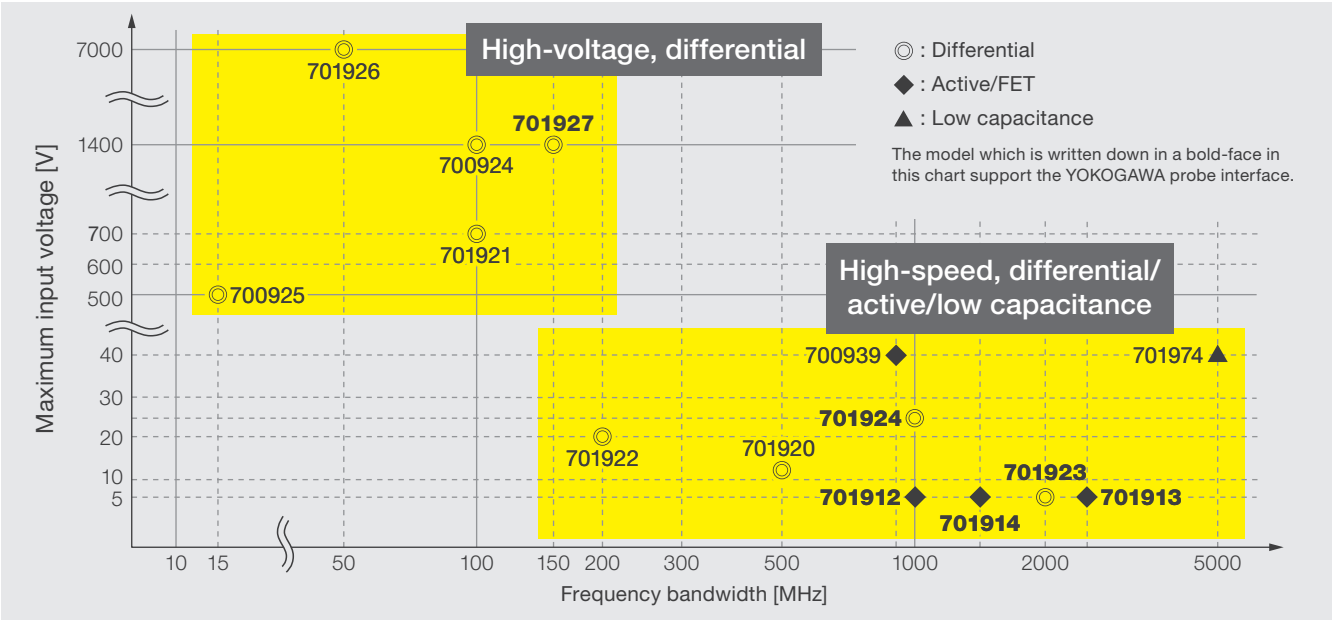


Others

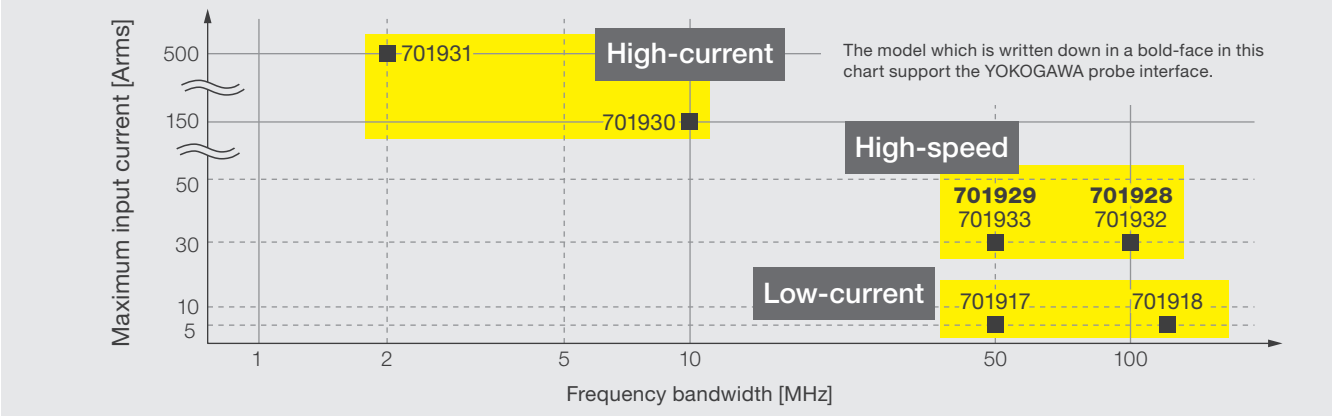
Passive probe chart



Differential, active and low capacitance probe chart



Current probe chart



Voltage probes

Passive/FET/Active/Low capacitance

A passive probe is the most basic yet versatile probe. By proper use of the provided attachments, a passive probe can be used not only for everyday measurement but also for much higher speed signals.
Yokogawa also provides probes for extreme use such as very high-voltage, wide temperature ranges, and ultra-high-speed signal measurement.

For oscilloscope

701938/39
200 MHz/500 MHz passive probe

10:1 passive probes for DLM2000/4000, DL6000, and DLM6000 series. Included as standard accessories.

701946
Miniature passive probe

10:1 miniature passive probe for DLM2000/4000, DL6000, and DLM6000 series. Included are the set of accessories useful for probing ICs and high-density PCBs.

701943
500 MHz passive probe

PB500

10:1 passive probe for DL9000/9500/9700 and SB5000 series.

702906 10:1 passive probe
(Wide operating temperature range)

10:1 passive probe with a wider operating temperature range (–40 to 85 ℃) and longer total length than normal passive probes. Suitable for temperature cycling tests.

701944/45
100:1 high voltage probe

100:1 passive probe for high voltage measurement up to 1000 Vrms.

701912/13/14
Active probe

PBA1000
PBA2500
PBA1500

Active probes with YOKOGAWA probe interface suitable for high-speed, single-ended signals.

700939
FET probe

The input resistance is higher than other types of active probe.
A probe power supply is required.

701974
5 GHz low capacitance probe

Probe with low input capacitance and low input resistance. Maximum input voltage is 20 Vrms or 40 V ACpeak.

The specified frequency bandwidth of a passive probe is the system bandwidth (–3 dB) when used with the related oscilloscope. The specified bandwidths of FET and active probes are for the probe only. The maximum input voltage is limited by the frequency of the measurement signal.

Passive probe selection guide (Oscilloscopes)

Model (Name)	Frequency bandwidth*1, *2	Maximum input voltage*3	Attenuation ratio	Input resistance*2/ capacitance*4	Total length	Notes
701938	200 MHz	600 V (DC + ACpeak)	10:1	10 MΩ/approx. 13.5 pF	1.5 m	600 V (DC + ACpeak) CAT II, For DLM2000 (200 MHz models)
701939	500 MHz	600 V (DC + ACpeak)	10:1	10 MΩ/approx. 10.5 pF	1.3 m	600 V (DC + ACpeak) CAT II, For DLM2000 (350/500 MHz models) For DLM4000, DL6000, DLM6000 series
701946	500 MHz	400 Vrms	10:1	10 MΩ/approx. 9.5 pF	1.2 m	Miniture passive probe, 1250 Vpeak CAT I; 300 Vrms CAT II For DLM2000/4000, DL6000, DLM6000 series
701943 (PB500)	500 MHz	600 V (DC + ACpeak)	10:1	10 MΩ/approx. 12.5 pF	1.5 m	600 V (DC + ACpeak) CAT II, For DL9000/9500/9500, SB5000 series
702906	200 MHz	1000 V (DC + ACpeak)	10:1	10 MΩ/approx. 16 pF	2.5 m	1000 V (DC + ACpeak) CAT II, Wide operating temperature (–40 to +85℃) For DLM2000/4000 series
701944	400 MHz	1000 Vrms	100:1	50 MΩ/approx. 7.5 pF	1.2 m	1000 Vrms CAT II; 4000 Vpeak CAT I
701945	250 MHz	1000 Vrms	100:1	50 MΩ/approx. 7.5 pF	3 m	1000 Vrms CAT II; 4000 Vpeak CAT I

*1: DC to –3 dB point *2: Defined by a probe only *3: Depending on the frequency of the measurement signal *4: The input capacitance is from the probe tip

Active probes, low capacitance probes selection guide (Oscilloscopes)*5

Model (Name)	Frequency bandwidth*1, *2	Maximum input voltage*3	Maximum nondestructive voltage*3	Attenuation ratio	Input resistance*2 /capacitance*4	Total length	Recommended instruments	Power supply
701912 (PBA1000)	1 GHz	±15 V (DC + ACpeak)	±25 V (DC + ACpeak)	10:1	100 kΩ/approx. 0.9 pF	1.2 m	DLM2000/4000/6000, SB5000 DL6000/9000/9500/9700	YOKOGAWA probe I/F
701913 (PBA2500)	2.5 GHz	±15 V (DC + ACpeak)	±25 V (DC + ACpeak)	10:1	100 kΩ/approx. 0.9 pF	1.2 m	DL6000/9000	YOKOGAWA probe I/F
701914 (PBA1500)	1.5 GHz	±15 V (DC + ACpeak)	±25 V (DC + ACpeak)	10:1	100 kΩ/approx. 0.9 pF	1.2 m	DLM6000, DL6000, SB5000 DL9000/9700/9500	YOKOGAWA probe I/F
700939	900 MHz	±10 V (DC + ACpeak)	±40 V (DC + ACpeak)	10:1	2.5 MΩ/approx. 1.8 pF	1.5 m	All YOKOGAWA's oscilloscopes	Probe power supply
701974 (PBL5000)	5 GHz	20 Vrms	40 VACpeak	10:1, 20:1	450 Ω/approx. 0.25 pF 950 Ω/approx. 0.4 pF	1.1 m	DL6000/9000 (The instrument of 50 Ω input impedance)	Not required

*1: DC to –3 dB point *2: Defined by a probe only *3: Depending on the frequency of the measurement signal *4: The input capacitance is from the probe tip
*5: The warranty period of 700939, 701912, 701913 and 701914 is 12 months.

For ScopeCorder (With isolated BNC inputs)

For safety, metals part of the probe body and the BNC connector are insulated except the probe tip.

700929 10:1 probe (Safety probe—for use with isolated input modules)

10:1 passive probe for an isolated input module of the ScopeCorder series. The frequency bandwidth is 100 MHz.

702902 10:1 passive probe (Wide operating temperature range)

10:1 passive probe for isolated input modules of the ScopeCorder series having a wider operating temperature range (–40 to 85 ℃) and total length of 2.5 m. Suitable for temperature cycling tests.

701947 100:1 probe (Safety probe—for use with isolated input modules)

100:1 passive probe for an isolated input module of the ScopeCorder series. The frequency bandwidth is 200 MHz.

*The specified frequency bandwidth is the system bandwidth when used with the supported input module. The system bandwidth always depends on the instrument used. The maximum input voltage is limited by the frequency of the measurement signal.

Passive probe selection guide (ScopeCorders: Isolated input module)

Model (Name)	Frequency bandwidth*1, *2	Maximum input voltage*3	Attenuation ratio	Input resistance*2 /capacitance*4	Total length	Notes
700929	100 MHz	1000 V (DC + ACpeak)	10:1	10 MΩ/approx. 18 pF	1.5 m	1000 V (DC + ACpeak) CAT II, 600 Vrms, CAT III
702902	60 MHz	1000 V (DC + ACpeak)	10:1	10 MΩ/approx. 17 pF	2.5 m	1000 V (DC + ACpeak) CAT II Wide operating temperature (–40 to +85℃)
701947	200 MHz	3540 V (DC + ACpeak)	100:1	100 MΩ/approx. 7 pF	1.5 m	3540 V (DC + ACpeak) CAT I, 1000 V (DC + ACpeak) CAT II

*1: DC to –3 dB point *2: The maximum non-destructive voltage *3: Depending on the frequency of the measurement signal *4: The input capacitance is from the probe tip.

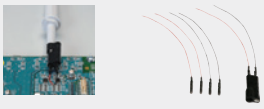
Passive probe selection guide (ScopeCorders: Non-isolated input module)

Model (Name)	Frequency bandwidth*1, *2	Maximum input voltage*3	Attenuation ratio	Input resistance*2 /capacitance*4	Total length	Notes
701940	10 MHz	600V (DC + ACpeak)	1:1, 10:1	10 MΩ/approx. 22 pF (@10:1)	1.5 m	

*1: DC to –3 dB point *2: The maximum non-destructive voltage *3: Depending on the frequency of the measurement signal *4: The input capacitance is from the probe tip.

Other accessories for the probe

366946* Solder-in adapter

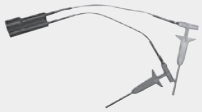


For 701938, 701939, 701943 (PB500) and 700939
Standard accessories include: Adapter, red wire (3), black wire (3)

701948 Plug on clip

Connected to the 700929, 701947
Maximum input voltage: 1000 V (DC + ACpeak)
Length: 0.26 m/0.3 m/0.4 m

B9852CR* Mini clip converter



A clip set designed for 700988, 700960 and 701940.

700971* Mini clip converter

A clip set designed for 701938, 701939, 701943 (PB500) and 700939

700972* BNC adapter

For 701938, 701939, 701943 (PB500) and 700939.

366945* Printed circuit board adapter

For 701938, 701939, 701943 (PB500) and 700939.
Quantity of 1 unit: 10

B8099NL 4 mm conversion adapter

Conversion adapters for 702902 and 702906 probes. Used for connecting to the high voltage measurement terminal adapters. (Pincher tip end)

B8099NM 4 mm conversion adapter

Conversion adapters for 702902 and 702906 probes. Used for connecting to the high voltage measurement terminal adapters. (Ground lead end)

*Unsafe for voltage measurements above 42 V.

Voltage probes

Differential probes

For measuring floating and high-speed differential signals in combination with single-ended input oscilloscopes. 6

701926
Maximum ±7000 V/50 MHz

High voltage 7 kV (peak) differential probe. The attenuation ratio is switchable between 100:1 and 1000:1.

700924
Maximum ±1400 V/100 MHz

A power cable sold separately

High speed and high voltage differential probe for floating measurements. The attenuation ratio is switchable between 100:1 and 1000:1.

701927
Maximum ±1400 V/150 MHz

PBDH0150

High voltage high bandwidth differential probe with the YOKOGAWA probe interface. The attenuation ratio is switchable between 50:1 and 500:1 which is recognized by the probe interface which also provides power. 100 MHz bandwidth is still maintained when using the 1 m probe tip extension cables.

701921
Maximum ±700 V/100 MHz

High speed differential probe for medium voltages. The attenuation ratio is switchable between 10:1 and 100:1.

700925
Maximum ±500 V/15 MHz

A power cable sold separately

Lower frequency differential probe for medium voltages. The attenuation ratio is switchable between 10:1 and 100:1.

701924
Maximum ±25 V/1 GHz

PBDH1000

A 1 GHz high bandwidth differential probe with the YOKOGAWA probe interface which recognizes the probe type and provides power. With 1.1 pF capacitance, it is ideal for measurements on vehicle bus signals such as CAN, CAN FD and FlexRay.

701922
Maximum ±20 V/200 MHz

Medium speed differential probe suitable for day-to-day testing on low voltage differential buses. The attenuation ratio is 10:1 and a YOKOGAWA instrument with probe power or an external supply is required.

701920
Maximum ±12 V/500 MHz

Higher speed differential probe suitable for day-to-day testing on low voltage differential buses. The attenuation ratio is 10:1 and a YOKOGAWA instrument with probe power or an external supply is required.

701923
Maximum ±5 V/2 GHz

PBD2000

Differential probe suitable for high speed differential data communication signals. The YOKOGAWA probe interface provides power and recognizes the 10:1 attenuation ratio.

B9852MJ
Power cable

Cable to provide power to the 700924, 700925, 701921 and 701926 probes from the probe power terminal on a YOKOGAWA instruments (/Px option) or the 701934 probe power supply.

Differential probe selection guide

Model (Name)	Frequency bandwidth*1, *2	Attenuation ratio	Maximum allowed differential voltage	Maximum input voltage	Power supply
700924	100 MHz	100:1, 1000:1	100:1 ±350 V (DC + ACpeak) 1000:1 ±1400 V (DC + ACpeak)	±1400 V (DC + ACpeak) CAT III	AA batteries or B9852MJ power cable (B9852MJ is sold separately)
700925	15 MHz	10:1, 100:1	10:1 ±50 V (DC + ACpeak) 100:1 ±500 V (DC + ACpeak)	±500 V (DC + ACpeak) CAT III	AA batteries or B9852MJ power cable (B9852MJ is sold separately)
701920	500 MHz	10:1	±12V (DC + ACpeak)	±30 V (DC + ACpeak)	Probe power supply
701921	100 MHz	10:1, 100:1	10:1 ±70 V (DC + ACpeak) 100:1 ±700 V (DC + ACpeak)	±700 V (DC + ACpeak) CAT III	AA batteries or B9852MJ power cable (B9852MJ is attached)
701922	200 MHz	10:1	±20 V (DC + ACpeak)	±60 V (DC + ACpeak) CAT I	Probe power supply
701923 (PBD2000)	2 GHz	10:1	±5 V (DC + ACpeak)	±7 V (DC + ACpeak)	YOKOGAWA probe I/F
701924 (PBDH1000)	1 GHz	50:1	±25 V (DC + ACpeak)	±35 V (DC + ACpeak)	YOKOGAWA probe I/F
701926	50 MHz	100:1, 1000:1	100:1 500 Vrms and 700 Vpeak 1000:1 5000 Vrms and 7000 Vpeak	5000 Vrms and 7000 Vpeak CAT I	AA batteries or B9852MJ power cable (B9852MJ is attached)
701927 (PBDH0150)	150 MHz	50:1, 500:1	50:1 ±140 V (DC + ACpeak) 500:1 ±1400 V (DC + ACpeak)	±1400V (DC + ACpeak) CAT II	YOKOGAWA probe I/F

*1: DC to –3 dB point *2: Defined by a probe only

(Note) The warranty period of 701920, 701922, 701923, 701924, 701926 and 701927 is 12 months. This product has not been designed or manufactured for applications in which high reliability is required over a long time period. This probe is not water or dust resistant. Do not use the probe in areas with a lot of dust or where water may be spilled. The maximum input voltage depends on the input signal frequency.

Current probes

7 For measuring high and low currents

701931
DC to 2 MHz, 500 A

For measuring the high current of a power device, a motor or inverter drive without breaking the circuit.

701930
DC to 10 MHz, 150 A

A higher bandwidth probe for measuring the high current of a power device, a motor or inverter drive without breaking the circuit.

701933
DC to 50 MHz, 30 A

For measuring higher speed current waveforms without breaking the circuit.

701932
DC to 100 MHz, 30 A

Similar to the 701933 with higher bandwidth.

701928
DC to 100 MHz, 30 A

PBC100

Similar to the 701932 with the YOKOGAWA probe interface. This probe is automatically recognized by a DLM series oscilloscope which also provides power.

701929
DC to 50 MHz, 30 A

PBC050

Similar to the 701933 with the YOKOGAWA probe interface. This probe is automatically recognized by a DLM series oscilloscope which also provides power.

701917
DC to 50 MHz, 5 A

A low noise probe for low current measurement for such things as LED drive circuits or small motors.

701918
DC to 120 MHz, 5 A

A higher frequency version of the 701917

701934*
Probe power supply

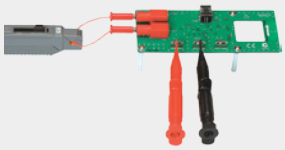
A power supply for current probes, FET probes, and differential probes. Provides power for up to four probes, including large current probes.

Number of power supply connectors	4
Output voltage	±12 V ±0.5 V
Rated output current	+12 V: 2.5 A, −12 V: 2.5 A (the total value of four outputs)
Rated supply voltage	AC100 to 240 V (50/60 Hz)
External dimensions	Approx. 80 (W) × 119 (H) × 200 (D) mm
Weight	Approx. 1.2 kg

/Px option*
Probe power option

Built-in probe power terminals on the main unit can be used to power current probes, FET probes, and differential probes (/P2, /P4 and /P8 option).

701936
Deskew correction signal source



To enable the skew between voltage and current inputs to be adjusted

*Probes with the YOKOGAWA probe I/F such as the 701927, 701928 and 701913 do not require a /Px option and 701934 since power is supplied from the front panel.

Current probes selection guide*6

Model (Name)	Frequency bandwidth*1	Maximum continuous input range*2	Maximum peak current value*2	Amplitude accuracy*3	Total length	Noise*4	Power supply*5
701917	50 MHz	5 Arms	7.5 Apeak	3%	1.5 m	75 µArms or less	Probe power supply
701918	120 MHz	5 Arms	7.5 Apeak	3%	1.5 m	75 µArms or less	Probe power supply
701928 (PBC100)	100 MHz	30 Arms	50 Apeak	1%	1.5 m	2.5 mArms or less	YOKOGAWA probe I/F
701929 (PBC050)	50 MHz	30 Arms	50 Apeak	1%	1.5 m	2.5 mArms or less	YOKOGAWA probe I/F
701930	10 MHz	150 Arms	300 Apeak	1%	2 m	25 mArms or less	Probe power supply
701931	2 MHz	500 Arms	700 Apeak	1%	2 m	25 mArms or less	Probe power supply
701932	100 MHz	30 Arms	50 Apeak	1%	1.5 m	2.5 mArms or less	Probe power supply
701933	50 MHz	30 Arms	50 Apeak	1%	1.5 m	2.5 mArms or less	Probe power supply

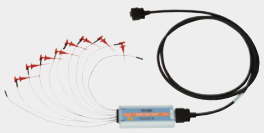
*1: DC to −3 dB point, defined by a probe only
*2: Depending on the input signal frequency.
*3: The condition is under the maximum continuous input and DC or 45 to 66 Hz. The amplitude accuracy of a brand-new 701917/701918 is typically 1%.
*4: When used together with a measuring instrument with 20 MHz bandwidth. (30 MHz for the 701917/701918).
*5: The number of probes is limited when using a DL probe power terminal. See the following website for details: https://www.yokogawa.co.jp/ftp/dist/ks/eusers/lca/current_probe_EN_01.pdf
*6: Output ratios: 701917/701918 = 1 V/A, 701928/701929/701932/701933 = 0.1 V/A, 701930/701931 = 0.01 V/A
The warranty period is 12 months.

Logic probes and accessories

For oscilloscopes

701988
For DLM2000/4000 series

PBL100



Maximum toggle frequency: 100 MHz
Input impedance (typical value): 1 MΩ/10 pF

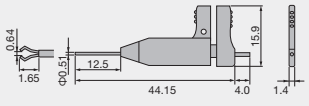
701989
For DLM2000/4000 series

PBL250

Maximum toggle frequency: 250 MHz
Input impedance (typical value): 100 kΩ/3 pF

B9852ES
IC clip

By attaching to the tips of logic probe (701988 or 701989) or mini-clips (B9852CR), the IC clips can be used to clip contiguous 0.5 mm pitch terminals. A total of 10 clips are included.



701909
Logic probe accessory kit

Logic probe accessory kit for use with 701989.

Logic probe selection guide (for oscilloscopes)*1

Model (Name)	Inputs	Input voltage range	Input impedance	Maximum input voltage	Threshold level	Note
701988 (PBL100)	8	±40 V	1 MΩ/10 pF (Typ.)	±42 V (DC + ACPeak) or 29 Vrms*2	±40 V at 0.05 V resolution*2	Maximum toggle frequency is 100MHz.
701989 (PBL250)	8	±6 V mainly on a setting threshold level	100 kΩ/3 pF (Typ.)	±40 V (DC + ACpeak) or 28 Vrms*2	±6 V at 0.05 V resolution*2	Maximum toggle frequency is 250MHz. Related accessory: 701909

*1: Warranty period of 701988/701989 is one year. *2: When it is used with DLM2000/4000 series

For ScopeCorders

700986
High speed logic probe (TTL)

8 bit non-isolated inputs.
Two measurement leads (B9879PX and B9879KX) included.

700987
Isolation logic probe

8 bit isolated inputs.
Response time: 20 ms (AC)
Suitable for high voltage measurement. Use with 758917 leads for 42 V or more. use with 366961 leads for low level common mode voltages less than 42 V.

702911/12
High speed logic probe (TTL/Contact input)

8 bit for TTL or contact closure inputs.
Two measurement leads (B9879PX and B9879KX) included.
Cable length: 1 m (702911), 3 m (702912)

Logic probe selection guide (for ScopeCorders)

Model (Name)	Inputs	Input voltage range	Input impedance	Maximum input voltage	Threshold level	Note
700986	8	±42 V (DC + ACpeak)	Approx. 100 kΩ	±42 V (DC + ACpeak)	1.4 V	TTL input Response time: 1 µs or less
700987	8	DC: H/L detection for 10 V to 250 V (DC) AC: H/L detection for 80 V to 250 V (AC, 50/60 Hz)	Approx. 100 kΩ	250 Vrms CAT II	DC: 6 V ±50% AC: 50 V ±50%	For power supply monitoring and isolated input Response time: DC input: 1 ms or less AC input: 20 ms or less
702911	8	±35 V (DC + ACpeak)	10 kΩ or more	±35 V (DC + ACpeak)	Approx. 1.4 V	Cable length: 1 m TTL, contact input Response time: 3 µs or less
702912	8	±35 V (DC + ACpeak)	10 kΩ or more	±35 V (DC + ACpeak)	Approx. 1.4 V	Cable length: 3 m TTL, contact input Response time: 3 µs or less

High-voltage measurement accessories

9 These accessories enable safe high-voltage measurements when used together with DL850E and SL1000 isolated input modules.

Note: read the User's Manual carefully before making high-voltage measurements

701901
1:1 BNC safety adapter cable

1000 Vrms CAT II,1.8 m long
Safety BNC (plug) to safety banana (plug) use in combination with a pair of optional adapters or clips.
1000 Vrms CAT II

758917
Measurement lead set

A set of 0.8 m long red and black test leads, stackable, used in combination with a pair of optional adapters or clips.
1000 Vrms, 32 Arms CAT II

758933
Measurement lead set

2 pieces (red and black) in 1 set
length: 1.0 m
Used in combination with a pair of optional adapters or clips.
1000 Vrms, 19 Arms CAT III

701902/03
Safety BNC cable

701902: 1000 Vrms CAT II (BNC-BNC), 1 m
701903: 1000 Vrms CAT II (BNC-BNC), 2 m

701906
Long test clips

Set contains one black and one red clip.
1000 Vrms CAT II

701954
Alligator clip (Dolphin type)

Set contains one black and one red clip.
1000 Vrms CAT II

701959
Safety mini clip (Hook type)

Set contains one black and one red clip.
1000 Vrms CAT II

758921
Fork terminal adapter

Set contains one black and one red adapter.
1000 Vrms CAT II

758922
Small alligator-clip adapter

Set contains one black and one red adapter.
300 Vrms CAT II

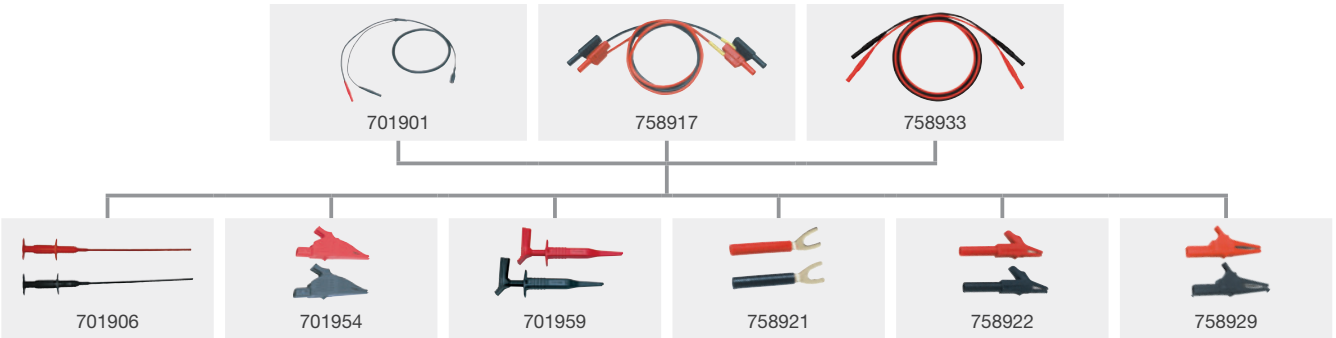
758929
Large alligator-clip adapter

Set contains one black and one red adapter.
1000 Vrms CAT II

If these clips and adapters are used with differential probes such as the 700924, 701927 etc. the specifications of the maximum input voltage and frequency bandwidth may change.
Caution: Take care when using the 758921 as there is a risk of electric shock from exposed metal parts.

Combination examples

Safe measurements can be performed when using these measurement leads with appropriate clips/adapters.



It is the lower measurement category if the measurement category are different combination.

Cables/Adapters/Other accessories

Cables and adapters

366924*1/25*1 BNC cable

1 m long (366924) and 2 m long (366925) BNC-BNC cables.

366926*1 BNC cable (1:1)

1 m long BNC-alligator clip cable.

366961*1 Measurement cable

Subassembly of 1.2 m long test leads with alligator-clip adapters.

366973 Go/No-Go cable

For DLM series. Used to connect an external device.

366921*1 Conversion adapter

BNC (plug)-Banana-jack (female) adapter.

366922*1 Conversion adapter

Banana-plug (male)-BNC (jack) adapter.

366923*1 T-adapter

T-adapter for BNC connectors.

751512*1 Conversion adapter

Safety-terminal-binding-post adapter.

366928*1 Conversion adapter

A BNC (jack)-RCA (plug) adapter.

758924 BNC adapter

An adapter for fitting a 4 mm wide banana jack to a BNC connector (plug).

700976*2 50 Ω terminator

Used to connect an oscilloscope having a 1 MΩ input to a probe with a 50 Ω output.
Frequency range: DC to 500 MHz.
Allowable power: 0.5 W.

*1: Unsafe for voltage measurements above 42 V. *2: Not required for DLM oscilloscopes which can accept 50 Ω terminations directly.

ScopeCorder accessories

701970 DC power cord

For DC power supply model (/DC).
Cigarette lighter plug type
Cable length: 1.8 m

701971 DC power cord

For DC power supply model (/DC).
Alligator clip type
Cable length: 1.8 m

720911 External I/O cable

For DL850/E series EXT I/O cable

720901-01/-02 Synchronous connecting cable

For SL1000. Capable of synchronous operation for up to 8 units with a total connection cable length of 10 m or less.
Cable length
720901-01: 1 m, 720901-02: 3 m

701955/56 NDIS bridge heads

NDIS cable (5 m) included
Bridge resistance:
120 Ω (701955)
350 Ω (701956)

701957/58 D-sub bridge heads

D-sub cable (5 m) included
Supports Shunt-Cal
Bridge resistance:
120 Ω (701957)
350 Ω (701958)

700940 NDIS connector cable

1.5 m long connector-to-connector adapter cable complying with NDIS-MIL C26482.
Used to connect a MIL-standard cable to the strain module

A1002JC NDIS connector

NDIS connector for direct connection to a strain module.

Others

701919 Probe stand

Hands-free circuit board positioner with heavy base and flexible arm. For 8 to 13 mm diameter probes.

438920/21/22 Shunt resistor

Resistance: 250 Ω ±0.1% (438920)
100 Ω ±0.1% (438921)
10 Ω ±0.1% (438922)
TCR: ±25 ppm/℃
Rated power: 0.3W

701963/64/68 Soft carrying cases

701963: for DL850/750/9000 series
701964: for DLM2000, DL1600/1700E
701968: for DLM4000 series
Size (mm): 450 × 285 × 270 (701963)
335 × 260 × 360 (701964)
520 × 285 × 285 (701968)

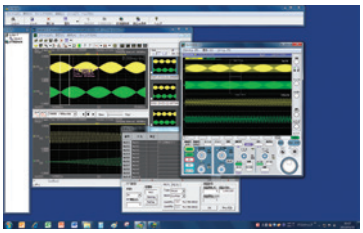
Software

Yokogawa provides a comprehensive suite of software tools to complement and support your oscilloscope and ScopeCorder measurement tasks.

Xviewer allows you to display acquired waveforms, transfer files and control instruments remotely. The MATLAB® tool kit enables instruments to easily interface with MATLAB. Instruments can be controlled from within MATLAB and data transferred.

Free software such as XviewerLITE, Xwirepuller, a NI DIAdem plugin and drivers for LabVIEW enable you to control instruments from your PC and transfer data via the Ethernet, USB, or GP-IB interface.

Developer tools such as DLLs, APIs and sample programs are available to enable you to easily develop Microsoft Visual C++ and Microsoft Visual Basic programs to communicate between the PC and our instruments.



Example of remote monitoring and waveform analysis using Xviewer

Please see:
http://tmi.yokogawa.com/products/oscilloscopes/oscilloscopes-application-software/
http://tmi.yokogawa.com/service-support/downloads/

Model numbers and suffix codes

Passive probe

Model	Product	Description
700960	Passive probe	200 MHz bandwidth, ±600 Vpeak
700988	Passive probe	400 MHz bandwidth, ±600 Vpeak
701938	Passive probe	200 MHz bandwidth, ±600 Vpeak
701939	Passive probe	500 MHz bandwidth, ±600 Vpeak
701940	Passive probe	10 MHz bandwidth, ±600 Vpeak
701943	Passive probe	500 MHz bandwidth, ±600 Vpeak
701941	Miniature passive probe	500 MHz bandwidth, 400 Vrms, cable length: 1.2 m
701942	Miniature passive probe	350 MHz bandwidth, 400 Vrms, cable length: 3.0 m
701946	Miniature passive probe	500 MHz bandwidth, 400 Vrms
701944	100:1 high voltage probe	400 MHz bandwidth, 1000 Vrms, cable length: 1.2 m
701945	100:1 high voltage probe	250 MHz bandwidth, 1000 Vrms, cable length: 3.0 m
701947	100:1 probe	200 MHz bandwidth, ±1000 Vpeak, for use with isolated BNC inputs
700929	10:1 probe	100 MHz bandwidth, ±1000 Vpeak, for use with isolated BNC inputs
702902	10:1 passive probe (Wide operating temperature)	60 MHz bandwidth, ±1000 Vpeak, for use with isolated BNC inputs
702906	10:1 passive probe (Wide operating temperature)	200 MHz bandwidth, ±1000 Vpeak
701974	low capacitance probe	5 GHz bandwidth, 500 Ω or 1 kΩ input impedance

FET probe/Active probe

Model	Product	Description
700939	FET probe	900 MHz bandwidth, ±10 Vpeak
701912	Active probe	1.0 GHz bandwidth, ±7 Vpeak, probe I/F
701913	Active probe	2.5 GHz bandwidth, ±7 Vpeak, probe I/F
701914	Active probe	1.5 GHz bandwidth, ±7 Vpeak, probe I/F
366945	Printed circuit board adapter	For 701938, 701939, 701943, 700939 (10 pieces)
366946	Solder-in adapter	For 701938, 701939, 701943, 700939
700971	Mini clip converter	For 701938, 701939, 701943, 700939
700972	BNC adapter	For 701938, 701939, 701943, 700939
701948	Plug on clip	For 700929, 701947
B9852CR	Mini clip converter	For 700988, 700960, 701940
B9852HF	Basic accessories set for the 701941/42 probe	11 accessories are included
B8099NL	4mm conversion adapter	For 702902 and 702906 (Pincher tip end)
B8099NM	4mm conversion adapter	For 702902 and 702906 (Ground lead end)

Differential probe

Model	Product	Description
700924	Differential probe	Maximum ±1400 Vpeak, 100 MHz bandwidth
700925	Differential probe	Maximum ±500 Vpeak, 15 MHz bandwidth
701920	Differential probe	Maximum ±12 Vpeak, 500 MHz bandwidth
701921	Differential probe	Maximum ±700 Vpeak, 100 MHz bandwidth
701922	Differential probe	Maximum ±20 Vpeak, 200 MHz bandwidth
701923	Differential probe	Maximum ±5 Vpeak, 2 GHz bandwidth, probe I/F
701924	Differential probe	Maximum ±25 Vpeak, 1 GHz bandwidth, probe I/F
701926	Differential probe	Maximum 7000 Vpeak and 5000 Vrms, 50 MHz bandwidth
701927	Differential probe	Maximum ±1400 Vpeak, 150 MHz bandwidth, probe I/F
B9852MJ	Power cable	Provides power from the DL main unit

Current probe

Model	Product	Description
701917	Current probe	DC to 50 MHz, 5 Arms, high-sesitivity
701918	Current probe	DC to 120 MHz, 5 Arms, high-sesitivity
701928	Current probe	DC to 100 MHz, 30 Arms, probe I/F
701929	Current probe	DC to 50 MHz, 30 Arms, probe I/F
701930	Current probe	DC to 10 MHz, 150 Arms
701931	Current probe	DC to 2 MHz, 500 Arms
701932	Current probe	DC to 100 MHz, 30 Arms
701933	Current probe	DC to 50 MHz, 30 Arms
701934	Power supply	Number of connectors: 4
701936	Deskew signal source	For voltage to current skew adjustment

Logic probe

Model	Product	Description
700986	Logic probe	TTL input
700987	Logic probe	Isolated input
701988	Logic probe	Maximum toggle frequency: 100 MHz
701989	Logic probe	Maximum toggle frequency: 250 MHz
702911	Logic probe	TTL/contact input, cable length: 1 m
702912	Logic probe	TTL/contact input, cable length: 3 m
B9852ES	IC clip	For contiguous 0.5 mm pitch terminals
701909	Accessory kit	For 701989

High voltage measurement accessories

Model	Product	Description
701901	1:1 BNC safety adapter lead	1000 Vrms CAT II, Cable length:1.6 m
(701901 can use with the accessories below.)		
701906	Long test clips	1000 Vrms CAT II, A set of black and red clip
701954	Alligator clip (Dolphin type)	1000 Vrms CAT II, A set of black and red clip
701959	Safety mini clip (Hook type)	1000 Vrms CAT II, A set of black and red clip
758921	Fork terminal adapter	1000 Vrms CAT II, A set of black and red clip
758922	Small alligator-clip adapter	300 Vrms CAT II, A set of black and red clip
758929	Large alligator-clip adapter	1000 Vrms CAT II, A set of black and red clip
701902	Safety BNC cable	1000 Vrms, Cable length: 1 m
701903	Safety BNC cable	1000 Vrms, Cable length: 2 m
758917	Measurement lead set	1000 Vrms CAT II, A set of black and red cable
758933	Measurement lead set	1000 Vrms CAT III, A set of black and red cable

Cables

Model	Product	Description
366924	BNC cable	Total length: 1 m
366925	BNC cable	Total length: 2 m
366926	BNC cable	BNC-alligator clip cable, Total length: 1 m
366961	Measurement cable	Banana-plugs (male) cable with alligator clips
366973	GO/NO-GO Cable	For DLM series

Adapters

Model	Product	Description
366921	Conversion adapter	BNC-banana-jack (female) adapter
366922	Conversion adapter	Banana-plug (male)-BNC adapter
366923	T-adapter	T-adapter for BNC connectors
366928	Conversion adapter	A BNC (jack)-RCA (plug) adapter
751512	Conversion adapter	Safety terminal-binding post adapter
758924	Conversion adapter	BNC-banana jack (female) adapter
700976	50 Ω terminator	Feed-through type

ScopeCorder accessories

Model	Product	Description
701955	Bridge head	NDIS cable (5 m) included, 120 Ω
701956	Bridge head	NDIS cable (5 m) included, 350 Ω
701957	Bridge head	D-sub cable (5 m) included, 120 Ω
701958	Bridge head	D-sub cable (5 m) included, 350 Ω
700940	NDIS connector cable	NDIS-MIL conversion, Total length: 1.5 m
A1002JC	NDIS connector	For strain module
701970	DC power cord	Cigarette lighter plug type
701971	DC power cord	Alligator clip type
720901-01	Synchronous connecting cable	For SL1000, Cable length: 1 m
720901-02	Synchronous connecting cable	For SL1000, Cable length: 3 m
720911	External I/O cable	For DL850/E series, PX8000

Printer Paper

Model	Product	Description	Sales unit
B9988AE	Printer paper	For DLM2000/4000, DL850/E series DL9000/6000/750 series	10
B9850NX	Printer paper	For DL1600/1700E/7400/9500/9700, DLM6000, SB5000 series	5

Please order multiple of the order quantity.

Model	Product	Description
701966	Printer paper	For DL750P, SL1400 (6 rolls)

Others

Model	Product	Description
438920	Shunt resistor	250 Ω ±0.1%, 0.3 W, ±25 ppm/℃
438921	Shunt resistor	100 Ω ±0.1%, 0.3 W, ±25 ppm/℃
438922	Shunt resistor	10 Ω ±0.1%, 0.3 W, ±25 ppm/℃
701919	Probe stand	Attachable probe: approx. dia. 8 to 13 mm

Carrying Cases

Model	Product	Description
701963	Soft carrying case	For DL850/750/9000 series
701964	Soft carrying case	For DLM2000, DL1600/1700E series
701968	Soft carrying case	For DLM4000 series

Rack mount kit

Model	Product	Description
701969-E	Rack mount kit	For DLM4000 series (EIA)
751541-E4	Rack mount kit	For SL1000 (EIA)

Front Panel Protective Covers

Model	Product	Description
B8023EA	Front panel protective cover	A transparent cover for DL750, DL750P
B8051DP	Front panel protective cover	A transparent cover for DL7400
B8059EP	Front cover	For DLM2000 series
B8069CH	Front cover	For DLM4000 series
B8074EA	Front cover	For DL850/E series
B8080EM	Front panel protective cover	A transparent cover for DL9000, DL9500, DL9700, SB5000 series
B9989FA	Front panel protective cover	A transparent cover for DL1600, DL1700E series

Software

Product	Model	Suffix code	Description
Xviewer	701992		Advanced waveform display and analysis
		-SP01	Standard Edition (1 license)
		-GP01	Math Edition (1 license)
		/JS01	DL850 Advanced Utility (1 license)
XviewerLITE	(Free software)		Basic waveform display and measurement
XWirepuller	(Free software)		Waveform monitoring and instrument control
MATLAB tool kit	701991		Plug in software for the MATLAB

Visit the following web sites for details about this software:
http://tmi.yokogawa.com/products/oscilloscopes/oscilloscopes-application-software/

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* Microsoft, Windows are trademarks or registered trademarks of Microsoft Corporation in the US and other countries.

NOTICE

● Before operating the product, read the user's manual thoroughly for proper and safe operation.

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